## **Program**

Sunday, 5 November 1995 Registration: 5:00 P.M. to 7:00 P.M. West Foyer		
<b>Morning S</b>	November ession Salon [I - IV]	
7:00 A.M. 7:00	Registration Set up Poster Presentations	
	Plenary Session	
8:00 - 8:20	Dave Riggs, Chairman, CPC Welcome and report on CPC activity	
8:20 - 8:40	Dr. Floyd Horn, Deputy under Secretary of Research Education & Economics/USDA USDA Perspective on Methyl Bromide	
8:40 - 9:00	Dan Barolo, Director, EPA/OPP EPA Perspective on Methyl Bromide	
9:00 - 9:20	Jim Wells, Director CalEPA/DPR Update on MB in California	
9:20 - 9:40	Jonathan Banks, Chairman, MBTOC  MBTOC - the 1995 Assessment [P-1]	
	BREAK - San Diego [I & II] International Phytosanitary Issues / Howard Singletary, Moderator	
	Christopher Hood, Deputy Head, Plant Policy Section/Quarantine Branch Australian Quarantine & Inspection Service, Canberra, Australia [P-2]	
10:20 - 10:40	Karen Prange, Animal & Plant Health Directorate, Agricultural Canada, Nepean, Ontario, Canada	
	Akio Tateya, Deputy Director, Agricultural Chemicals Inspection Station, Ministry of Agriculture, Forestry, and Fisheries, Tokyo, Japan [P-3]	
11:00 - 11:20	Kazuo Tanabe, Plant Protection Division, Ministry of Agriculture, Forestry and Fisheries, Tokyo, Japan [P-3]	
11:20 - 11:40	Richard Ivess, Chief Plant Officer, MAF Regulatory Authority, Wellington, New Zealand [P-4]	
	Don Husnik, Deputy Administrator, Plant Protection and Quarantine, Animal and Plant Health Inspection Service, USDA, Washington DC	
12:00 - 12:05	Gary Obenauf, Program Committee Chairman  Housekeeping	
12:05 - 1:30		
12:15 - 1:30	Moderators Luncheon - [Sonoma I]	

# **Tuesday, 7 November 1995 Morning Concurrent Sessions**

8:00 8:20	Radiation/Salon [I-III] Joe Borsa, Moderator Vick, K.,[54] Parameters Influencing Efficacy for Quarantine Use Griffin, R.,[55] The Use of Irradiation as a Phytosanitary	8:00 8:20	Preplant/Salon [IV] Mike McKenry, Moderator Chakrabarti, B.,[25] Reducing MB Emissions from Soil Fumigation in Greenhouses Gan, J., [26] Reducing Fumigant Volatilization Through Optimized	8:00 8:30	Forestry/Salon [V] Steve Fraedrich, Moderator Carey, W.,[74] Benefits of Fumigation in Southern Forest Nurseries Barnard, E., MB in Forest Tree Nurseries: Imperative or Opiate?
8:40	Treatment  Huettle, R.,[56] Treatment of Russian Logs with Cobalt-60 Irradiation to meet Phytosanitary	8:40	Application and Soil Management McKenry, M.,[27] Mitigating the Volatilization Associated With Telone	9:00	Kormanik, P.,[75] Cultural and Biological Alternatives to MB in Southern Pine Seedling Production
9:00	Requirements for Export into the United States  Ward, T., [57] Irradiation as a Substitute for MB Treatment	9:00	Mueller, J.P.,[28] Nematode and Disease Control with Drip Irrigation Applications of 1,3-D & Chloropicrin	9:20	Juzwik, J.,[76] Soil Water Management & Fusarium Root Rot in Eastern White Pine Seedlings
9:20	Smittle, B.,[58] The State of Florida Perspective on Irradiation as a Quarantine Treatment	9:20 <b>9:40</b>	Witt, B.K., [29] The Stonewool Alternative BREAK - San Diego [I & II]	9:40 <b>10:00</b>	Stone, J., [77] Alternatives to MB for Control of Bare Root Forest
9:40	Lüscher D.,[59] The California		ames MacDonald, Moderator	10.00	Jennifer Juzwik, Moderator
	Perspective	10:00	Thies, J.A., [30] Effectiveness of	10:20	•
10:00	BREAK - San Diego [I & II]		Resistance to Southern Root Knot		Management Without MB in a
10:20	Wong, L., [60] Hawaii's Perspective on Food Irradiation as a Quarantine Treatment	10:20	Nematode  Mircetich, J.,[31] Resistance of  Strawberry Cultivars as MB	10:40	Georgia Forest-tree Nursery  Peterson, M.,[79] Alternatives to  Fumigation and Fungicides in
10:40	Kotler, J.,[61] Radiation Technology as an Alternative to MB	10:40	Alternative for Control of Plant Collapse in Commercial Fields		Bareroot Forest Nurseries: Soil Treatments and Biocontrol Seed
11:00	Dietz, G., [62] Practical Considerations in Commercializing Irradiation	10:40	McKenry, M., [32] It is a Long Road From the Finding of a New Rootstock to the Replacement of a Soil Fumigant	11:00	Treatments  Dwinell, D., [80] Heat Treating Loblolly Pine Lumber to Eradicate  Bursaphelenchus xylophilus:
11:20	Technology Hargraves, B., [63] Consumer	11:00	Coffey, M., [33] Research in the Plant Pathology Dept. of California	11:20	Verification Tests  Dwinell, L.D., [81] Radio Waves and  Steam, Alone or in Combination, for
11:40	Acceptance of Irradiated Produce Stein, M., [64] The Gray*Star Solution		River-side on Statewide MB Alternatives		the Eradication of Bursaphelenchus  Xylophilus in Southern Pine Chips
12:00 -	1:30 P.M. LUNCH				

### Tuesday, 7 November 1995 Afternoon Concurrent Sessions

	Radiation/Salon [I-III]		Preplant/Salon [iV]
	Lyle Wong, Moderator		R.J. McGovern, Moderator
1:30	Sharp, J., [65] Mortality of	1:30	McGovern, R.J., [34] Reduction of
	Blueberry Maggot Larvae Exposed		Fusarium Crown & Root Rot of
	to Gamma Radiation		Tomato by Combining Soil
1:50	Moy, J., [66] Irradiation as a		Solarization & Metam Sodium
	Quarantine Treatment of Tropical	1:50	Hendrix, J., [35] Mycorrhizal Fungi
	Fruits		as Pathogens Controlled by Soil
2:10	Neven, L., [67] Biochemical		Fumigation
	Determinants of irradiation in	2:10	McKenry, M.,[36] Evidence for the
	Codling Moth		Development of a "Biological
2:30	Borsa, J., [68] Irradiation of Grain		Vacuum" in Soil Following Preplant
	for Quarantine Purposes: Aspects		Soil Fumigations or Drenches
	of Radiation-Induced Perturbation of	2:30	McKenry, M., [37] First-Year
	Mycotoxin Production		Evaluation of Tree & Vine Growth &
2:50	Smittle, B.J.,[69] Techniques to		Nematode Development Following
	Identify Irradiated Fruit Fly Larvae		17 Preplant Treatments
3:10	BREAK - San Diego [I & II]	2:50	BREAK - San Diego [I & II]
3:30	Drake, S.,[70] Influence of Electron		Dan Chellemi, Moderator
	Beam Irradiation on Sweet Cherry	3:10	Gilreath, J., [38]
	Quality		Fumigant/Herbicide Combinations
3:50	Johnson, J.,[71] Irradiation		for Polyethylene Mulched Tomato
	Disinfestation of Dried Fruits & Nuts	3:30	Locascio, S., [39] Fumigant
4:10	McDonald, R.,[72] Effects of		Alternative to MB for Polyethylene
	Irradiation on Quality of Fresh Fruits		Mulched Tomato
	and Vegetables	3:50	Duniway, J., [40] Evaluation of
4:30	Brower, J., [73] Irradiation of		Some Chemical & Cultural
	Khapra Beetle as a Quarantine		Alternatives to MB Fumigation of
	Alternative to MB Fumigation		Soil in a California Strawberry
4:50 - 5	:15 Discussion	4:10	Production System.
		4.10	Dickson, D.,[41] Evaluation of MB
			Alternative Fumigants &
			Nonfumigants on Tomato under
		4:30	Polyethylene Mulch in 1995
		7.30	Chellemi, D.O., [42] Integration of
			MB Alternatives into a Commercial
		4:50	Tomato Production System
		4.50	Porter, I., [43] Alternatives to

Structural/Salon [V] Vern Walters, Moderator 1:30 Brodie, B., [82] Alternative treatments for Decontaminating Equipment Infested with the Golden Nematode Chambers, M.,[83] Assessing the 1:50 Global Use Potential of Sulfuryl Fluoride Witt, B.,[84] The Stonewool 2:10 Alternative 2:30 Sims, J. J.,[85] Methyl lodide is a Potential Alternative to Methyl **Bromide** 

Eastern Australia

Preplant Soil Disinfestation with MB in Horticultural Crops in South

Tuesday, 7 November Evening Session 7:30 P.M. - 10:30 P.M. Roundtable Open Discussions

## Preplant/Salon [IV] Discussion Moderator, Dr. Jim Marois

7:30 P.M.	Jim Marois, Opening Remarks
7:35	Jim Locke, Population Dynamics of Pathogens and Beneficials in Fumigated
	Soils
7:40	Dan Chellemi, Nonchemical Alternatives and Population Dynamics Over Time
7:45	Jim English, Root Architecture and Microbial Succession
7:50	Dave Rizzo, Natural Systems Population and Community Ecology, Armillaria
7:55	Krishna Subbarao, Ecological Aspects of Cultural control
8:00	R.J. Cook, Rhizosphere Ecology
8:05 - 10:30	Open Discussion

## Postharvest/Salon [V] Discussion Moderator, Dr. Ken Vick

7:30 P.M. Quarantine, Phytosanitary and other Commodity Treatment Issues **7:40 - 10:30 Open Discussion** 

### Wednesday, 8 November 1995, Morning Concurrent Sessions

## Postharvest /Salon [I-III] Wally Ewart, Moderator

8:30	Hara, A.,[8] Postharvest Alternatives for Propagative
	Materials & Cut Flowers
8:50	Hennessey, M.K.,[9] Abamectin Caribbean Fruit Fly Bait
9:10	Mitcham, E.,[10] Development of a Carbon Dioxide
	Quarantine Treatment for Omnivorous Leafroller, Western
	Flower Thrip, Pacific Spider Mite & Grape Mealy Bug on
	Table Grapes
9:30	Neven, L., [11] Combination Treatments of Pome Fruit for
	Quarantine
9:50	BREAK - San Diego [I & II]
10:10	Shellie, K.C.,[12] High Temperature Controlled
	Atmosphere for Disinfesting Grapefruit of Mexican Fruit Fly
10:30	Veljovic, V. M., [13] Bromosorb™ Adsorption Technology
10.00	for Recovery & Reuse in Commercial Operation
10:50	Gay, R.B., [14] Controlled Atmosphere Treatment for
10.50	
	Commodities
11:10 -	- 1:00 - LUNCH

## Preplant/Salon [IV] James Sims, Moderator

8:00	Sims, J., [44] Methyl lodide: A Potential Alternative to MB
8:20	McGiffen, M., [45] Methyl Iodide: An Effective Replacement
	for MB for Weed Control
8:40	Ohr, H.,[46] Methyl lodide an Effective Replacement for
	MB for Preplant Fumigation of Soil Fungi
9:00	Becker, J.O., [47] Efficacy of Methyl Iodide Against Root-
	Knot Nematodes in Bucket & Field Trials
9:20	McMillan, R.T.,[48] Methyl lodide a Direct Replacement of
	MB as a soil Fumigant for Tomatoes
9:40	Noling, J., [49] Use of Methyl lodide for Nematode Control
10:00	BREAK - San Diego [I & II]
	Mike Melichar, Moderator
10:20	Skroch, W.A.,[50] Dazomet, A MB Alternative
10:40	Melichar, M. W., [51] Soil Injection of 1,3-Dichloropropene,
	Alone or Combined with Chloropicrin and/or Preemergent
	Herbicides, for Nematode, Soil-Borne Disease and Weed
	Control
11:00	Mayo, C., [52] Hot Water A Viable Alternative to MB
11:20	Noling, J., [53] Use of Hotwater for Nematode Control: A
	Research Summary
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11:40 **Open** 

## Wednesday 8 November Afternoon Session Red Lion Salon [I - V]

# Plenary Session

1:00 - 3:30	Summary of Concurrent Sessions
1:00 - 1:15	Dr. Joe Noling - Preplant
1:15 - 1:30	Dr. John Duniway - Preplant
1:30 - 1:45	Dr. Pat Vail - Postharvest/Durables
1:45 - 2:00	Dr. Hal Moffit - Postharvest/Perishables
2:00 - 2:15	Vern Walters - Structural
2:15 - 2:30	BREAK - San Diego [I & II]
2:30 - 2:45	Dr. Lyle Wong - Irradiation
2:45 - 3:00	Steve Fraedreich - Forestry
3:00 - 3:15	Bill Thomas - Posters
3:15 - 3:30	Gary Obenauf - Closing Remarks

#### **Posters**

# On Display/8:00 A.M. Monday through 12:00 noon Wednesday South Foyer - San Diego [I & II] Poster Presentations Monday, 6 November 5:30 P.M. - 6:30 P.M.

#### **Postharvest**

Arthur, F. H.,[86] Impact of Aeration on Insect Pest Populations in Stored Corn

**Brandi D. G., [87]** A Two-Stage Low-Oxygen Treatment to Control Navel Orangeworm & Indianmeal Moth in Walnuts

Dowdy, A. K., [88] Heat Susceptibility of Flour Beetles as Influenced by Age & Sex

Hallman, G. J., [89] Incorporation of Fruit Coatings into Quarantine Security Systems

Houck, L. G., [90] Phytotoxicity to Citrus Fruit from Postharvest Heat and Cold Insecticidal Quarantine Treatments used as Alternatives to MB Fumigation

Johnson, J. A., [91] Integrated Pest Management of Postharvest Insect Pests of Walnuts

King, J. R.,[92] Spinosad as a Bait Spray Toxicant for the Caribbean Fruit Fly, Anastrepha Suspensa (LOEW)

Miller, W. R., [93] Comparative Response of Grapefruit to Vapor Heat or Hot Water Treatment

Schmidt, E. L., [94] Fumigants to Kill Fungi and Parenchyma in Red Oak Log Sections

Macdonald, O. C., [95] Investigations into the Use of Phosphine for the Quarantine Treatment of Plant Cuttings

**Ariano, J. M., [96]** Investigations on the Adsorption, Storage Stability, and Recovery of MB using Petroleum Charcoal Air Sampling Tubes

Seiber, J. N., [97] MB Volatilization and Downwind Fate

#### Preplant

Allen, L. H., [98] Potential for Off-Season Soil Flooding as an Alternative to MB Fumigation in Florida

Civerolo, E., [99] USDA Agricultural Research Service Programs in California on Preharvest/Soils and Postharvest MB Alternatives Kaplan, D. T., [100] MB Alternatives for Control of Soil-borne Diseases, Nematodes, and Weeds: The USDA-ARS Research Program in Florida

Kaplan, D. T., [101] Development of Single-Spore Isolates of Pasteuria spp., A Bacterial Parasite of Plant Parasitic Nematodes Conkling, M. A., [102] Development of root-knot nematode resistant transgenic tomatoes for control of Meloidogyne spp. Locke, J. C., [103] USDA, ARS, Beltsville Area Programs Directed at Development of Methyl Bromide Alternatives for Pre-Plant Applications

Roby, D.M. [104] 1,3-D: Regulatory Issues, Toxicological Effects, Environmental Fate properties and Product Safety

Nyczepir, A. P., [105] Evaluation of Guardian™ Rootstock as a Methyl Bromide Alternative for Managing Peach Tree Short Life